Shipping

OCEANIC LINER SIERRA BRINGS HOST OF TOURISTS AND TEACHERS

and thirty-four cabin passengers to ar- discharged of a shipment of lumber. rive from San Francisco this morning in the ever popular Oceanic liner Sterra are tourists, according to the also another arrival from the Garden statement of genial Tom Smith, veter. Island the Kinau brought one auto, an purser and all-around good fellow 41 empty drams, 10 cases pineapples

A score or more of the arrivals were sundries. school teachers who upon re-touching The Kauai steamers met with fine up their work.

Captain H. C. Houdlette, command. er of the Sierra, was at his post on the bridge this morning despite the fact that the doughty skipper had, but two days before sailing from San Francisco, figured as a passenger in a large motorcar that had been met in

encounter with flying colors, notwith-standing the fact that the machine was forced along the steel track a distance of ninety feet. Had the mo-

utes in transit. In other words, be-

Sierra, was taken down with what is believed typhoid fever some days ago. On arrival of the liner this morning Persia Delayed In Arrival.

on the trip. the cargo are three automobiles, too tons hay and feed, a large quantity of cement and sundries, totaling meanly three thousand tons. The Sierra will lay over here some hours beyond the regular hour of sailing on next Saturday in order that passengers and others may witness the ste program of sports on Regat-

The Sierra brought fourteen lively men, members of an Alameda club. The vessel presented a picture this morning with sides ed with Alameda pennants.

ong the passengers were S. R. oal hank of Redlands, who is acgway, and her friend, Miss Grace GHI. S. T. Hanser, Jr., son of a former governor of Montana, his wife and a party of friends are the Sierra's passengers. Among Honolulu people returning were Mrs. r. R. McNab, daughter of the late Mexander Young. Richard Schmidt, on the liner. The passengers also inand company, was a passenger as liner. The passengers also independent of the fourteen yachting enthusiasts. Alameds who are coming to Ho. In the participate in the annual reference of their benefit the Sierra's hour has been extended several

Interistand Record Smashed.
What is declared as a record breaking event in the handling of sugar

at Hilo in Interisland circles performed on last Wednesday with the loading and dispatch of the Navigation steamer Enter-

The steamer Kaiulani broke all rec ords for leading sugar at that port ast Wednesday, when 3000 bags were ed on the Enterprise in one hour and seventeen minutes. A double gang handled the sugar on the Enterrise, while the handling on the Inter-Island toat was simply by the Kaiulani's crew. This means handling 40 tags per minute, or 2400 hundred per hour. The formed record was 2280 bags per hour.

Flaurence Ward Off For Midway. Taking a general shipment of supplies, the little auxiliary power schooner Flaurence Ward is being mare ready for sea and will probably be dispatched teday for Midway Island, the isolated relay station of the Comercial Pacific Cable Company. The Flaurence Ward has been supplied with a varied assortment of provisions and merchandise sufficient for the needs of the company of operators and employees at Midway.

Mary Winkleman Ready To Leave

The Mary Winkelman is expected will depart from Kauai ports in ballast tomorrow according to report Carra, Mrs. James Carswell, F. J. Drought to this city in the steamer W. Childs, Miss. B. Chapel, Mrs. T. M.

Fifty per cent. of the one hundred G. Hall. The windiammer has been The Hail returned yesterday with a quantity of sugar and sundries.

> The Interisland steamer Kinau was a quantity of sugar and 115 packages

terra firma at once proceeded to take weather with smooth seas and light winds.

Pleiades Has Been Saved.

The Oceanic Sierra arriving at Honolulu this morning brought advices that the steamer Pleiades, which was stranded several weeks ago near the entrance to Magdalena bay, was pullcollision with a railway train, result- ed into deep water on Sunday by the ing in almost fatal injuries to one member of the party, while Mrs. Work of saving the vessel, which was Houdlette was still under the care of generally supposed to be stranded for a physician when the Sierra left the all time, was performed by Captain James Rudden and Captain A. F.

torear upset, it is more than likely tion of the Marconi Wireless Comthat half of the occupants would have pany at an early hour yesterday been killed. Mali to the amount of 206 sacks was the Pleiades: "Floated Sunday. No received at the local office from the serious leak except in the peak tanks, liner. The pouches containing letters which give no trouble. Machinery to the postoffice were but twenty min-Will then decide what best: Six morning the postal clerks had been at hundred and fifty thousand work sorting the mail for a considerable time.

H. D. Lansen, in the operator George Bennett deserves operator George Bennett deserves great credit for excellent work."

en was conveyed from the ship to The Pacific Mail liner Persia from In addition to 134 cabin passengers, discharge at Honolulu will not arrive 25 traveled in the steerage. Purser at this port before Wednesday mornlared that the Sierra is no ing according to a late wireless receiv-sidered a popular means of ec on Sunday at the agency of H. with the festive stownway and Hackfeld and Company. The Persia of this gentry were discovered is understood as bringing a hundred to more Asiatic steerage passengers The best of weather prevailed, mak- for the Hawaiian islands. It is the present intention to dispatch the liner for San Francisco on or about five o'clock Wednesday evening.

> Alaskan Bringing Heavy Cargo, One of the largest shipmeats of New York cargo consigned to the Haorted as aboard the American-Ha-atian freighter Alaskan which is due to arrive at Honolula on Wednesday evening or early Thursday morning, according to advices received by C. P. orse General Freight Agent for the

American-Hawaiian line. The Alaskah is to take on a large quantity of augar and in the neighborhood of fifty thousand cases of preserved pineapples.

agency of H. Hackfeld & Company the agents for the Pacific Mail liner Korea, that vessel has sailed from Yo-kohama with 950 tons oriental cargo for discharge at Honolulu. The Kerea is due to arrive here on or about next Monday. The local agents anunce that the Korea has accommodation for one hundred and twentyfive additional cabin passengers from this port.

Nitrates Ready For Discharge. eq from the British bark Eudora, which has passed inspection at the hands of the Federal quarantine authorities and was sent alongside the wharf yesterday. This vessel has cargo consigned to the Pacific Guano and Fertilizer Company

Mongolia Bringing Coast Freight. aboard the Pacific Mail liner Mongoka now enroute from San Francisco to Honolulu and due to arrive here on Friday morning. The vessel is underwith a very large list of passengers.

Kapai a Point Of Destination. The Interisland steamer Noeau has been placed on the berth to sail at five o'clock this evening for Kauai ports This vessel will carry freight and late mails for windward ports along the Garden Island.

Kauai Sugar Report

According to report brought by officers in the Interisland steamr Kinan the following sugar is awaiting shipment on the Garden Island, M. A. K. 3197, L. P. 12,986, McB. 2456 sacks.

PASSENGERS ARRIVED

Per Q. S. S. Sierra, from San Fran. eisco-For Honolulu: A. K. Akana. Miss Myra Angus, Miss N. Armstrong Miss Marie Baldwin, A. J. Balger Miss Minnie E. Bates, Miss Mary E Blue, G. J. Boisse, Mrs. Boisse, Al. Brampton, Miss B. E. Carra, Mrs. E.

79; 10 a. m., 80; 12 noon, 82. Mini-

mum last night, 75. Wind-6 a. m., velocity 12, direction east; 8 a. m., velocity 14, direction east; 10 a. m., velocity 12, direction east; 12 noon, velocity 14, direction Movement past 24 hours, 202

Barometer at 8 a. m., 30.00. Relative humidity, 8 a. m., 60. Dew-point at 8 a. m., 64. Absolute humidity, 8 a. m., 6.361. Rainfall, 0.

VESSELS TO AND FROM THE ISLANDS (Special Cable to Merchants' Exchange.)

Saturday, Sept. 16, 1912. MONTEREY—Sailed, September 15, 8 S. Wm. Herrin for Honolulu. YOKOHAMA-Sailed, September 14, S. Korea for Honolulu,

YOKOHAMA-Arrived, September 15, S. S. Chiyo Maru hence September

S. S. PERSIA-will dock at Alakea wharf from Yokohama, Wednesday at 7 a. m. and sail for San Francisco 5 p. m.

Church and three children, Mrs. G. I Churchill Miss B. Cook, Mrs. Henry Cooper, E. J. Cowing, Mrs. Cowing, Mrs. A. H. Cox, J. H. Crawford, Miss L. Craig, C. Crozier, Mrs. H. C. Davis, Master D. Davis, J. W. Duckworth, Mrs. Duckworth, A. W. Dunn, Mrs. A. Duren, Miss Edith F. Edgerly P. T. Evans, Miss Grace T. Gill Mrs. H. Graham, Mrs. G. A. Grove, Miss L. Greenfield, Miss Kate Greig, Mrs. A. Gurnsey, Fred Hacke, Jr., Walter Haley, J. Hartman, Mrs. Hartman, Mrs. Celia Haskins, S. T. Hauser, Jr., Mrs. Hauser, A. N. Hayselden, Mrs. Hay-selden, C. Hedemann, Mrs. Hedemann, Miss R. B. Hemingway, S. R. Hemingway, Henry Hess, Mrs. Hess, Sam Hop, Miss M. H. Hutcheon, E. Huddleson, Mrs. Huddleson, C. W. Jefford, Mrs. Jefford, Jas. Johnston, Mrs. J. M. Kepner, Master S. Kepner, H. children, Mrs. T. A. Marlowe and child, A. Milne, Miss Mary Mitchell, G. W. Morgan, Mrs. Morgan, Jas. Ni-choll, Henry Nielsen, Mrs. Nielsen, W. S. Noblitt, Mrs. K. Nonomeela, Mrs. F. G. Noyes, Hans Nuss G. Pewtress, Marvin Preston, Lam Quon, Mrs. G. E. Ramer, Edward Ramer, Rex J. Ramer, R. G. Raphael, Raphael, H. A. Reichert, J. S. Roberts, Mrs. Roberts and child, Mrs. E. A. Rumney, Richard Schmidt, Fred Snyder, H. A. Somers, Mrs. J. H. Somers, Oscar Somers, W. H. Sparks, J. Strachan, Mrs. Strachan, Miss D. M. Stone, Chas. Sutherland, Mrs. C. L. Trotter, Mrs. Jas. Wainwright, Miss Amy Wainwright, P. H. Watson, H. H. Williams, Mrs. Williams, C. G. Wil-

son, Mrs. and Miss Harrison Smith. Per str. Kinau, from Kauai, Sepember 15.—George O'Nelli, F. G. Douse, A. W. Eames, Miss McCarthy, Master Douse, Miss Wright, W. H. Wright, C. B. Hofgaard, Miss Esther Pagett, Miss Ethel Pagett, Rev. J. B. Barton, Miss M. Charmen, Rachel Makea, Miss Orio, R. Iona, Mrs. A. kea, Miss A. Charmen, Miss Martin, Miss M. Kauwe, Miss R. Kekela, D. Mrs. Tillie Bryant, Miss E. Simpson, Mrs. C. Kwaiwi, Miss B. Bertelmann. R. Puihi, M. Youngenell, E. Fountain, Master Cockett, C. T. Buchnell, G. M. Marshall, E. Crowell, Andrero Iona, Rev. L K. Kaiwai, A. Richmond, J. Panul, N. S. Pauson, Mrs. Reichell, K. W. Kenney, Kauila Opunui, Henry Robinson, J. K. Cockett, J. K. Loli, from South America is being discharg- Miss E. M. Kaiwai, William Opunui, Dr. Sandon, S. T. Carr, Kaiwi Maewa, Mrs. J. K. Cockett, Master Smith, Per str. W. G. Hall, from Kauai, Kale, Mrs. Francke, Miss Taku Oney, road is soon stripped of its fine bind-Miss Sakima, Mrs. Sakima, Mr. Saling material, exposing the upper or kima, Mr. Watake, Master Konda, C. wearing course of the stone. These Mary Kaisue, Master Kokan, John driving wheels, leaving the road badly B. Fernandez, Fred Fernandez, William Makananui, John Makananui, J. G. M. Sheldon, Joseph Sheldon, David stood as having sailed from the coast | Sheldon, Hans, Isenberg, E. Weber. Per str. Mikahala, from Molokai and Maui, September 15 .- A. C. Dowsett, W. J. Coneho, Lot Kealohu, J. K. Pun, C. A. Bell, C. K. West, E. F. Drenert, H. E. Savage, Mrs. H. E. Savage, A. S. Asborn, Panl Hoe, I. and many ingenious theories have been Y. Yin, Lim Tai Song, Ah Wing Song, advanced, While it is true that the M. D. Kanihoo, S. Saida, Master slipping of the tire, skidding, shape of Saida, W. C. Weeder, S. Kwiakawi, the car body, suction of the pneumatic Miss Ella Kau, Miss Emy Wong, tires, all contribute to produce the ef-Kuhapeho, Wr. Dickson and wife, Mrs. Monteastle and son, Mrs. R. Clark and two children, Misa Mary

Meir husbands

Mahoe, Miss J. Kanikou, Miss Y.

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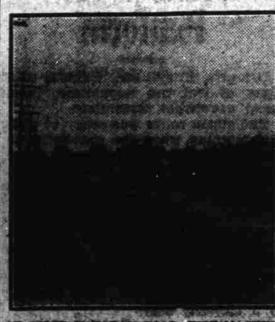
Home Course Road Making

XI.—The Relation of Automobiles to Modern Highways.

By LOGAN WALLER PAGE, Director Office of Public Roads, United States Department of Agriculture.

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HE most complex problem new engaging the attention of highway engineers all over the world is the preservation of the crushed stone road under the destructive action of motor vehicles and the devising of new methods of construction adapted to the requirements of this twentieth century traffic. That the automobile has come to stay no one will dispute. It is estimated that there are already about 450,000 ma-



lines owned in the United States, and

The fact that must give us concern fic and that we are in the midst of a transition period which must eventually revolutionize the science and art of the lighter products in that they conthe road builder. The highway engineer of today is called upon to ascertain in what way the automobile in-Jures the road, what is the exact cause of the injury, and finally to devise an adequate remedy.

When Tresaguet, the great French engineer, made his report to the coun cil of bridges and roads in 1775 he set adequate until the twentieth century.
These great road builders and their their philosophy. They worked upon when wet serve as a cement, thereby making the road surface practically a road from time to time were depended any other way. upon to wear off a sufficient amount of Takiuchi, Mrs. E. Yueminn, Mr. Hare, rock dust to replace that carried away by wind and water, and this under the action of moisture recemented, thereby

road surface. new dust from the rock, but the tre-September 15 .- Miss L. Mitter, Miss by effecting a permanent loss of the all A. Mitter, Master Kale, Mrs. S. K. essential binder. It follows that the A. Nelson, Mrs. C. A. Nelson, Mrs. stones robbed of the binding material F. Dirwert, Miss L. Diwert, Mrs. are soon loosened by the shear of the raveled or disintegrated. It is, of course, apparent that the effects described are greatly intensified on curves, where skidding is most fre-

Highway and mechanical engineers have given much study to the action of the automobile on the road surface, the main factor of injury.

A series of tests conducted by the United States office of public roads in Ainoe, Miss Kaalowahi, E. E. Auld, 1908 produced some interesting results Ben Kupiha, James Hobbs, Miss J. along this line. Cars of various weights McCorriston, Mrs. M. Dimm, C. Dimm, and types were run over a measured Mr. and Mrs. J. M. Keanu and son. course at different rates of speed and right angle photographs taken of each

South Pasadena women will go run. A sixty horsepower car stripped without fall hats and put their "hat" for racing, weighing with its driver money into a club fund. Two hundred and mechanician about 2.800 pounds. women expect to raise \$2000 - from was driven over this stretch of road at rates of speed varying from five to sixty miles per hour, the speed being increased five miles per hour for each trip over the road. Up to fifteen miles an hour little or no effect was produced, also range from those of a paraffin on the road, but from twenty miles an | base to those almost wholly asphanic. hour the effect was striking with each increase in speed. These demonstrat be prepared by an expert and materials

produced by the front wheels and that practically the entire disturbance of the road is produced by the rear or driving wheels. If the effect were produced by suction or vacuum the action be somewhat similar at least. It seems apparent to the writer, therefore, that the road best adapted to motor traffic is the road which will best resist this powerful tractive shear. It has already been demonstrated that no plain mac adam road is capable of resisting this force.

The efforts of progressive highway engineers are thus directed primarily toward the preservation of our stone dustless roads by the use of a binder more powerful than stone dust and. secondly, to minimizing or mitigating the dust nuisance.

For the purpose of discussing intellizently the experiments thus far conducted with special binders the term "dust preventives" has been applied to all of the various binders having for their main object either suppression or the prevention of dust. These may be divided into two classes, temporary and permanent. The temporary binders and are either incorporated with the other materials at the time of the construction or applied later by a surface treatment.

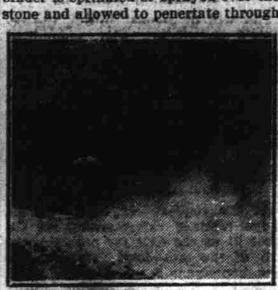
may be included water, salt solutions, light oils and tars and oil and tar emulsions, waste sulphite liquors, etc., while the permanent binders include the heavy petroleums and turs, pitches and numerous oil, tar and asphalt preparations. The value of salt solutions, which have been used to some extent. lies in the hygroscopic character of the dissolved salt, which, having considerable affinity for water, keeps the road surface in a moist condition long after a surface treated with water alone would have become dry through evapo-

The light oils and tars as well as the oll and tar emulsions depend for their the number is increasing at a marvel- effect, upon a comparatively small amount of true binding base left upon the road surface after the volatile Kihn, Charles Kiser, Charles Lam, F. is that the old methods of construction products have evaporated. These ma-W. Lau, Mrs. Lau, Miss H. C. Lau, which have stood every test for more terials prove effective only so long as they retain their binding power. When the conditions of this new form of traf- the binding power is destroyed it is

tain a much greater amount of true binding base. The results are, therefore, of a more lasting character and hence the name "permanent binders." The semisolid and solid preparations usually contain a still greater amount of binder. With some few exceptions

all of the true binders are bitumens. The usual method of applying these Strachan, Mrs. Strachan, Miss D. M.
Stone, Chas. Sutherland, Mrs. C. L.
Sutherland, Frankila Taylor, Mrs. D.
Thaanum, Master Thaanum, Dr. L. S.
the nineteenth century, have proved ment binders because of their much greater viscosity must be heated until sufficiently fluid. In England and successors sought to secure a road ca-puble of withstanding the wear of iron to a large extent, and their methods of France tile use of coal tar is practiced tired horse drawn vehicles, for the mo- application have been highly developed. tor driven vehicles had no place in Machines are in general use which are self propelling and in which the tar is the theory that the dust abraded from | beated and applied to the road surface the crushed stone would fill the voids as a spray under high pressure. These between the angular fragments and so called "tar sprayers" are not only very economical in the use of tar, but monolith. The fron shod horses and better penetration of the road surface Charmen, Miss Charmen, Ralph Ma. the iron tired wheels passing over the than it is possible to obtain in almost

> In the construction of dustless roads the crucial question is that of cost. The effort must be to develop a form of construction which will withstand fast automatically renewing the bond of the automobile traffic and at the same time be within the financial resources of the The rubber tired wheels, moving at community. This is largely being done excessive speed, fall to produce any at present by the use of a bituminous binder instead of rock dust. The two mendous shearing effect of the driving methods generally employed are known wheels loosens this dust, and as the as the penetration and the mixing body of the machine displaces a large methods. In the former the hot liquid volume of air the deflected currents | binder is sprinkled or sprayed over the carry the rock dust off the road, there- stone and allowed to penertate through



AN UNTERATED ROAD WITH MACHINE TRAVELING SIXTY MILES AN HOUR-PLEN-TY OF DUST.

the voids and coat the stones usually Mabel Naone, Chiyo Saida, Y. Saida, fect, the most conclusive experiments to a depth of two or three inches. In E. Keola, Mrs. Kaukaila, W. Y. Kellu- seem to warrant the assertion that the the mixing method the stones and noe, H. H. Kanihou, John Kalima, A. great tractive force or shear exerted binder are thoroughly mixed either by are dead and thousands have left the W. Clark, Sara Kalino, Amoe Ahu, by the driving wheels of motorcars is hand or machine, so that each stone is city to escape the heat. covered with a thin film of the binder. This method in general insures the bet- Frick are to testify regarding past po. a call at Honoiulu, according to adter and more even distribution of the binder throughout the road surface, but the cost is greater than that of the penetration method.

One of the chief causes of the great number of failures which have been recorded in the use of bituminous road materials is the failure of the user as well as manufacturer to understand certain fundamental principles many a tar is simply a tar and an oil an oil, while in reality there is a vast difference sometimes even in the tars produced at the same works. The oils

Specifications for the bitumens should WINE AND LIQUOR MERCHANTS tions proved that little or no effect is should be tested in the laboratory.

Konalulu Star-Bulletin

of both front and rear wheels should In which is combined the HAWAHAN STAR, established 1893, and the EVENING BULLETIN, established 1382. Issued Daily and Semi-Weekly by

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OZGO'S SURRENDER TO



GEN. PASCUAL OROZCO, JR., Mexican rebel who has sought safety in the United States

Rebel General Avoids Execution as Traitor by Fleeing Across the Line

With the surrender of Gen. Pagcual Orozco, Jr., to Captain Thomas F. ed to extend amnesty toward the mar Mitchell of the Marfa military patrol who it is said did more than any other yesterday, it is believed by army offi- commander to but Madero in the prescers here who are familiar with the idential chair, and was among the situation in Mexico, that the revolt first to turn against him.

in northern Mexico is over. Ger Orozco gave himself up to the Amer icans to avoid being forced to stand in front of an adobe wall with a firing squad facing him. This was his promised fate, as Madero had declin

SPECIAL MAIL SERVICE TO S TAR-BULLETIN Home and Foreign Dispatches Giving World's News at a Glance,

LATEST NEWS BULLETIN. Originating day steamer sailed) The rainfall in San Francisco this

September has been the heaviest ixty two years. Mexican rebels crossed the boundary to raid American ranches and

were driven back by a small force of American cavalry. Kaiser Wilhelm visited Berne, toast- discovered in six weeks.

Chicago is scorching again, Two

Morgan, Rockefeller, Gary and litical contributions.

among seven children. Col. A. L. Snowden, former U. S. lost last year, will leave Newbort minister to Spain, Greece, and the News shortly for the coast. The trip

delphia. The New York "Bull Moose" conven- Unalga is a vessel- of 1.181 tons distion was stampeded quite unexpected- placement. Captain Richard O. Crisp ly for Oscar S. Strauss, who becomes is in command of the Unalga and the the Progressive candidate for gov. chief engineer is Lieut. C. C. McMil-

Governor Johnson has reached New York in his transcontinental speaking

summer home, for a short rest. Two British army officers los, their lives at Stevenage, England, while

state that a Honolulu polo team has promised to visit the coast next sea-

Wm. J. Bryan has announced that he will campaign in California for Woodrow Wilson. Twenty-seven tins of opium were found on the S. S. Mongolia yesterday

at San Francisco — the first shipment

ed Switzerland and promised a statue house will be located on the site of the old city hall.

One of the latest revenue cutters in the federal service is scheduled vices received in this city today. The Jim Jeffries inherited \$12,190 as a revenue cutter Unalga, which was part of his mother's estate, divided built for service in Alaskan waters in place of the steamer Rush, which was Balkan states, has just died at Phila- will be made via the Suez canal, Manila, Yokohama and Honolulu. The lan, who is well-known in this city.

It is a great deal better to be disappointed in love than to be disap-Taft has left for Beverly, Mass., his pointed in love than be disappointed ir, marriage,

Many a girl marries a man, not bebucking a stiff wind in an aeroplane, cause he is good enough for her, but Hillsborough, Cal., polo enthusiasts because he is too good for her rival.

Office King Street, opp Union Grill